(d) passing the eluted vasopressin and the plurality of peptides through a UV detector to generate a UV spectrum of the eluted vasopressin and the plurality of peptides;

(e) identifying a peptide of the plurality of peptides based on a retention time of the peptide of the plurality of peptides relative to a standard; and

(f) calculating an amount of the peptide of the plurality of peptides based on an integration of a peak obtained for the peptide of plurality of peptides from the UV spectrum.

3. The pharmaceutical composition of claim **1**, wherein the impurities comprise SEQ ID NO.: 2, and SEQ ID NO.: 2 is present in the unit dosage form in an amount of 0.1 to 0.3%.

4. The pharmaceutical composition of claim **1**, wherein the impurities comprise SEQ ID NO.: 3, and SEQ ID NO.: 3 is present in the unit dosage form in an amount of 0.1%.

5. The pharmaceutical composition of claim **1**, wherein the impurities comprise SEQ ID NO.: 4, and SEQ ID NO.: 4 is present in the unit dosage form in an amount of 0.2% to 0.4%.

6. The pharmaceutical composition of claim **1**, wherein the impurities comprise SEQ ID NO.: 7, and SEQ ID NO.: 7 is present in the unit dosage form in an amount of 0.3% to 0.6%.

7. The pharmaceutical composition of claim **1**, wherein the impurities comprise SEQ ID NO.: 10, and SEQ ID NO.: 10 is present in the unit dosage form in an amount of 0.1%.

8. The pharmaceutical composition of claim **1**, wherein the impurities comprise SEQ ID NO.: 2 and SEQ ID NO.: 4, and SEQ ID NO.: 2 is present in the unit dosage form in an amount of 0.1% to 0.3% and SEQ ID NO.: 4 is present in the unit dosage form in an amount of 0.2% to 0.4%.

9. The pharmaceutical composition of claim **8**, wherein the impurities further comprise SEQ ID NO.: 3, SEQ ID NO.: 7, and SEQ ID NO.: 10, and SEQ ID NO.: 3 is present in the unit dosage form in an amount of 0.1%, SEQ ID NO.: 7 is present in the unit dosage form in an amount of 0.3% to 0.6%, and SEQ ID NO.: 10 is present in the unit dosage form in an amount of 0.1%.

10. The pharmaceutical composition of claim **1**, further comprising sodium acetate.

11. The pharmaceutical composition of claim **1**, the unit dosage form further comprising a pH adjusting agent.

* * * * *